

M.Sc. in Computing
(Enterprise Software Systems)
Module: Enterprise Web Development

Assignment 2 - Web API
(server-side)

Due date: 05/05/2019

Assignment 2

- Develop a web API for Assignment 1.
- Technologies: Node, Express, MongoDB, Mongoose, Testing tools (Mocha, Chai etc.).
- Integrate the API with your React app.
- Can extend API beyond scope of client app:
 - Client app may be too narrowly scoped.
 - Can extend client app to accommodate scope of API.

Assignment 2

- 40% of CA
- Deliverables:
 - Source code in Github or Bitbucket repository.
 - A suitable **readme.md** file.

Grading Spectrum

- **Pass(40-49)** - Basic Node.js web API implementation (2 routes) and Mongo integration. React application deployed with basic read and write.
- **Good(50-59)** - Good Node.js API design and associated modeling(Mongoose), integrated with React application allowing full manipulation of resources(Create/read/update/delete). Simple API testing.
- **V good (60-74)** - Complex service api incorporating nested documents/collections. Separation of concerns (routing, app). Use of third party NPM modules. Data validation at API. Very good use of code quality tools (e.g. linting). Very good use of Express Middleware.
- **Excellent (75-84)** - Authentication/verification to accomplish richer functionality. Build/deployment automation using suitable tool. Comprehensive testing strategy for API and associated reporting. Document referencing.
- **Outstanding(85 - 100)** - Integrating 3rd party services/modules, live hosting, testing, reporting, analytics.